

In the Specification

Please replace the paragraph bridging pages 11 and 12 starting with "For example"

For example, using $\tilde{L}^e(\hat{T})$, the search for a high scoring candidate sequence may be performed by the following algorithm referred to herein as "*Algorithm A*". In accordance with Algorithm A, for each vertex $\vec{y} = \langle y_1 \dots y_{k-1} \rangle \in \Sigma^{k-1}$, and integer $j = k - 1, k, k + 1, \dots, l$, let $S^u[\vec{y}, j]$ be the maximum score of a j -long sequence ending with \vec{y} aligned to $\langle h_1 \dots h_j \rangle$.

Initialize, for each \vec{y} :

$$S^u[\vec{y}, k-1] = \sum_{j=1}^{k-1} L^{(j)}[y_j, h_j] \quad (11)$$

Loop over $j = k, \dots, l$, and for each vertex $\vec{y} = \langle y_1 \dots y_{k-1} \rangle$ recursively update:

$$S^u[\vec{y}, j] = L^{(j)}[y_{k-1}, h_j] + \max_{e=(\vec{z}, \vec{y}) \in E} \{S^u[\vec{z}, j-1] + \omega(e)\} \quad (12a)$$

Finally, return:

$$MAXScore^e = \max_{\vec{y} \in V} S^u[\vec{y}, l] \quad (12b)$$